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EG&G ROCKY FLATS

EG&G ROCKY FLATS INC
ROCKY FLATS PLANT P O BOX 464 GOLDEN COLORADO 80402 0464 (303) 966 7000



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May 25 1994

Scott R Grace
Environmental Restoration Division
DOE/RFEO

OPERABLE UNIT 2 SOIL VAPOR EXTRACTION (SVE) MEETING - PJL 020 94

Attached are minutes from a meeting held between the Department of Energy/Rocky Flats Field Office EG&G Rocky Flats Inc and Woodward Clyde on April 19 1994. The meeting was held to provide an update on the activities of the CJ 2 SVE project.

If you have any questions regarding these minutes please contact Robin Madel of Environmental Engineering and Technology at extension 6972.

Peter J. Laurin
Operable Unit 2 Project Manager
Remediation Project Management

REM jlm

Orig and 1 cc - S R Grace

Attachment
As Stated

cc
E. A. Dille - Aguirre Engineering

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ADMIN RECORD

DOCUMENT CLASSIFICATION
REVIEW WAIVER PER
CLASSIFICATION OFFICE

Department of Energy/Rocky Flats Field Office
Soil Vapor Extraction Update
April 19 1994

ATTENDEES

Scott Grace	DOE/RFFO
Eric Dille	Aguirre
Michael Klein	EG&G
Robin Madel	EG&G
Jim McLaughlin	EG&G
Todd Trangmar	Woodward Clyde

Mid year review in May

EG&G is preparing a press release

DOE would like a technical fact sheet for future press releases (TIE conferences etc)

Review of In Situ Regeneration of Carbon filter

in situ regeneration is not a proven technology

the technology was not considered for TM 2

Well abandonment 4 wells 4 x 70 feet 280 feet

Jacobs was contacted about performing the work Contract requirements \$100K
cost includes H&S work plan waste management analytical costs for IDM (but not NAPL
characterization)

current testing period will be completed then wells will be abandoned

then continue on with extended operations until construction for six phase heating

Preliminary Outlines for Technical Memorandum 3 (TM 3) and
Technical Memorandum 4 (TM 4)

(see attached outlines)

TM 3 OU 2 SVE Program Changes (to Site 1 sustained operations)

Subject matter is in attached outline

TM 4 Site Characterization and Model

this Tech Memo will support

six phase heating basis of design
off gas treatment system basis of design
3 D modeling Dynamic Graphics
predictive modeling
other activities that may be defined later

Meeting Monday April 25 to define the scope of the 3 D modeling with Tom Greengard Eric
Dille Barry Roberts Pete Laurin (and other EG&G staff) Scott is not available data needs
will be identified

May 19th PNL will present the Test Plan as it is to the agencies
Janet will be constructing a crude model to present

A geological cross section which is not done yet will be done in TM 3 in the section
addressing abandonment of sandstone wells

TM 4 may be developed into a workplan (Proposed Workplan)

The following items will need to be addressed through a BCP New Scope/Changed Scope

- 1 Schedule revision for Site 2
need to upload schedule into work packages
be clear about changing IM/IRAP durations
- 2 Addition of TM 3 & TM 4
- 3 Design of off gas treatment system (the funding for TM 2 is already available)
- 4 Gas pressure probes
- 5 Sampling of 4 sandstone wells to be abandoned
- 6 Subsurface abandonment of 4 sandstone wells
- 7 Extended operations beyond 6 weeks
- 8 Reconfiguration of system
- 9 System calibration
- 10 De scope Test Site 3
- 11 Electric power for six phase heating

not new scope but need new funding for extended operations

The following outlines are tentative outlines for TM 3 and TM 4

PRELIMINARY OUTLINE
OU 2 SVE TECHNICAL MEMORANDUM #3

INTRODUCTION

- Project background and objectives
- Events Driving TM #3
- Purpose of TM #3
 - Rationale to discontinue dewatering
 - Explain additional pilot tests
 - Abandonment of bedrock wells
 - Identification of additional data needs
 - Groundwater characterization and NAPL sampling
 - Schedule impact of changes in scope

RATIONAL TO DISCONTINUE PILOT TESTS NOS 5 7 & 9

- Potential DNAPL Migration
- Groundwater generation
 - Volumes
 - Treatment and Disposal
- Lack of soil gas production
- Period of time required to dry soils for increase in soil gas production

EVALUATION OF ADDITIONAL PILOT TESTS

- Pilot Test 2 4 conducted with additional geoprobes
 - Insufficient soil gas pressure monitoring data available with one monitoring well
- Pilot Test 10 conducted with AI1 configured as extraction well
 - Reconfiguration of AI1 to allow for test
- Pilot Test 11 conducted with AV1 & AI1 as extraction wells

ADDITIONAL DATA NEEDS

- How does the influence on subsurface pressures by the vacuum drawn at the wellhead translate across the trench T 3 boundary and into the trench?
 - Propose additional pilot tests conducted with geoprobes located within the trench
 - Define geophysical work required to support/trench boundary identification
 - Evaluate other means of gathering data
- Evaluate if sufficient data is available for successful design of Pilot Test Site #2
 - Hydraulic conductivity
 - Other data needs
 - Emergency Removal Contingency Plan
 - Literature Search
- Geology
 - Provide geologic cross section indicating SVE wells installed for Pilot Test Site #1

Groundwater Characterization

- Evaluate in situ characterization instrumentation applicability

 - If applicable propose use define how to implement and schedule required

 - If not feasible bring to close

- Sampling of bedrock wells

 - Evaluate and define method of sampling

- Evaluation of analytical requirements Define what we are looking for

 - Potential DNAPL

 - TPH Acetone Ketones etc

ABANDONMENT OF BEDROCK WELLS

- Overdrill and abandon

 - Potential for DNAPL migration to lower HSU

SCHEDULE IMPACT OF CHANGES IN SCOPE

- Deleted scope

- Identify tasks and define schedules/impacts

 - New scope added

 - Groundwater disposal schedule impact

 - Scope added by TM #1 TM #2 etc

- Impact on milestones

- Propose changes to milestones

PRELIMINARY OUTLINE
OU 2 SVE TECHNICAL MEMORANDUM #4

Introduction

Project background and objectives of pilot testing at Test Site No 1 and Test Site #2

Purpose of TM #4

Provide site conceptual model constructed of available data for IHSS 110

Identify additional data needs to ensure a successful design and implementation of Pilot Test Site #2

Overview of Available Data on Site Conditions of IHSS 110 (TM #1 referenced with presentation of knowledge gained since)

Geology (taken from TM 3)

Hydrogeology

Nature and Extent of Contamination

Construct/Present Site Conceptual Model Based on Available Data (from RFI/RI and results from Pilot Test No 1)

Identify Additional Data Requirements to Provide a Basis of Design for Six phase Heating at Pilot Test Site #2

Data needs

Sampling requirements

Physical testing needs

Additional 3D data for Dynamic Graphics

Evaluate DQOs

Define how to obtain data to meet DQOs

Schedule Requirements